

# Metal Finishing Index to Volume 84 January—December, 1986

In this index, all material that appeared in Metal Finishing during 1986 is listed according to subject matter. A letter will be found following each list-

ing indicating the category in which the material was published, as follows: (B) Book, (D) Developments/New Products, (M) Manufacturers' Literature, (P)

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Electropolishing Gold (S)	Sep/76
Electropolishing (M)	Sep/103
Electropolishing Tubes (P)	Nov/81
Discolored Titanium (S)	Dec/63

## EMI/RFI SHIELDING

EMI Shielding Process (P)	Feb/100
EMI Shielding Process (P)	Jul/76
EMI Shielding (M)	Jul/93

## EPOXY COATINGS

Thermosetting Coating Composition (P)	Jan/94
Technical Developments in 1985	Feb/43
Circuit Board Protective Composition (P)	Feb/92
Chip Resistant Primer (P)	Feb/94
Coating Composition (P)	Mar/66
Anti-Corrosive Primer (D)	Mar/76
Epoxy Resin Coating (D)	May/92
Epoxy-Polyester Primer (P)	Jun/110
Chip Resistant Primer (P)	Jul/73
Chip Resistant Primer (P)	Jul/76
Can Coating (P)	Sep/87
Epoxy Coating Composition (P)	Nov/76

## FILTERS

Polyethylene Encapsulated Filter Vessel (D)	Jan/74
Liquid/Solids Separation Unit (D)	Jan/78
Paint Filter (P)	Feb/98
Bag Filter (P)	Feb/108
Filter Housings (D)	Feb/110
Filter Press (D)	Feb/114
Mobile Filter Press (D)	Feb/116
Polypropylene Cartridge Filters (M)	Feb/128
Backwashing Filters (M)	Feb/128
Filter Chambers (D)	Mar/70
Cartridge Filter Housings (D)	Mar/74
Plastic Filter Vessel (D)	Mar/74
Sidebar Filter Press (D)	Apr/95
Cartridge Filters (M)	Apr/104
Filter Feeder (D)	May/85
Transfer Adapter (D)	May/91
Pressure Filter (D)	May/92
In-Tank Filter System (M)	May/98
Filtration for Corrosive Liquids (D)	Jun/20
Multi-Media Filter (D)	Jun/23
Filter with FRP Base (D)	Jun/25
Depth and Membrane Filters (D)	Jun/26
Filter Press with Basket Strainer (D)	Jun/148
Microporous Ceramic Filter (D)	Jun/151
Wound Cartridge Filters (M)	Jun/159
Filter Cartridges (M)	Jun/162
Fiberglass Filter Tubes (M)	Jun/162
Filter Cartridge (D)	Jul/86
Filter Press Plates (M)	Jul/92
Nonmetallic Filter Vessels (M)	Aug/84
Pleated Cartridge Filters (M)	Aug/85
Filter Presses (M)	Sep/103
Ultrafiltration (M)	Sep/104
Filtered Thoughts — Introduction	Oct/63
Liquid Filter/Transfer System (D)	Oct/102
Cartridge Filter (M)	Oct/115
Filtered Thoughts — Start of the Cleaning Line	Nov/43
Hazardous Filters (D)	Nov/70
Plate and Frame Filter Press (D)	Nov/82
Automatic Filtration (D)	Nov/84
Filter Press with Plate Shifter	Nov/94
Disposable Filter (D)	Nov/95
Filtered Thoughts — Achieving Zero Rejects	Dec/61
Heavy Duty Filters (D)	Dec/76
Filtration Systems (D)	Dec/79
Fiberglass Filter Cartridges (M)	Dec/90

## FLOORING & GRATINGS

Roar Coating Kits (D)	Mar/73
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## FLUOROCARBON COATINGS

Primer Coating (P)	Jan/71
Aqueous Tetrafluoroethylene Coating (P)	Jan/71
Technical Developments in 1985	Feb/43
Fluoropolymer Resins (D)	Apr/90
Architectural Finishes (D)	Aug/74

## HEATING & COOLING

Radiant Gas Burner (M)	Mar/80
Electric Heating Products (M)	Mar/81
Energy Reduction Techniques in Metal Electrochemical Processes (B)	Mar/87
Heat Transfer Coils (D)	Apr/86
Process Heaters (M)	Apr/102
Portable Water Chillers (D)	May/88
Thermoplastic Heat Exchanger (M)	Jun/159

Heat Transfer Coils (S)	Oct/94
Tank Insulation (D)	Oct/98
Columbium Coils (M)	Oct/111
Immersion Heat Exchangers (M)	Oct/113
Recirculating Water Chillers (M)	Oct/113
Heater Control (P)	Nov/76
Heating/Cooling Coils (D)	Nov/82

#### HIGH SOLIDS COATINGS

High Solids Coating (P)	Jan/93
Technical Developments in 1985	Feb/43
High Solids Additive (P)	Feb/100
High Solids Coating (P)	Mar/66
High-Solids Finish (D)	Mar/73
Coating for Aluminum (M)	Jul/92
Solvent for High Solids (P)	Sep/83
High Solids Coating (P)	Sep/87
Castings Coating (D)	Sep/88
High Solids Polyester (P)	Oct/89
Coatings for Metal Office Furniture (D)	Oct/102
High Solids Coating of Wire (P)	Nov/73
High Solids Polyester (P)	Nov/74
High Solids Coating (P)	Dec/66

#### HOT DIPPING

Aluminum Hot Dip (P)	Jan/71
Protective Layer for Galvanize (P)	Jan/71
Hot Dipping (P)	Jan/95
Technical Developments in 1985	Feb/11
Increasing Profits in Hot Dip Galvanizing	May/23
Aluminum Hot Dipping (P)	Jun/106
Aluminum Hot Dip Coating (P)	Jul/77
Galvanized Wire (P)	Sep/83
Galvanizing Apparatus (P)	Nov/81
Accidents and Hazards in Hot Dip Galvanizing	Dec/23
Hot Dip Alloy (P)	Dec/68

#### ION EXCHANGE

Continuous Ion Exchange (P)	Apr/76
Ion Exchange (M)	Apr/103
Ion Exchange Systems (M)	May/99
Ion Exchange Resin (P)	Jun/104
Rhenium Recovery (P)	Jun/108
Mixed Bed Deionizers (D)	Aug/74
Ion Exchange Process (P)	Sep/81
Mixed-Bed Deionizers (D)	Oct/108
Package Deionizers (M)	Nov/100

#### LACQUERS

Zinc Recovery Process (P)	Apr/77
Lacquers Composition (P)	May/77
Old Brass Lacquer (S)	Jul/78
Automotive Lacquer (P)	Nov/76
Waterborne Lacquer (P)	Nov/78

#### MAINTENANCE

Abrasive Cleaning Apparatus (P)	Jan/72
Chain Conveyor Cleaner (D)	Feb/116
Chain Lubricators (M)	Apr/102
Spray Booth Coating (D)	Sep/92
Maintenance and Repair (D)	Oct/101

#### MASKS & STOP OFFS

Painting Mask (P)	Jan/73
Spray Booth Masking Agent (P)	Jan/93
Masking Devices (M)	Feb/129
Solder Mask (D)	Apr/92
Nitride Masking (D)	Apr/98
Pressure Sensitive Masking (M)	Apr/102
Masking Plugs (D)	May/86
Stippable Coating (D)	May/90
Solder Mask (D)	Jun/125
Masking Devices (M)	Jun/151
Laser Point Masking (P)	Jul/73
Pressure Sensitive Masking (D)	Jul/82
Protective Masks (D)	Jul/90
Plasma Resistant Mask (P)	Oct/92
Insertion Plugs and Masking Devices (D)	Oct/100
Electroplating Tape (P)	Nov/78
Hardcoat Anodizing Mask (S)	Dec/63
Solder Mask Coating (P)	Dec/70

#### MASS FINISHING

Finishing Mill (M)	Jan/86
Technical Developments in 1985	Feb/11
Vibratory Finishing (D)	Feb/126
Vibratory Apparatus (P)	Mar/66
Mass Polishing Metals (M)	Mar/79
Hardwood Media and Mass Polishing	Apr/15
Shaping up Mass Finishing	Apr/45
Dry Finishing Compounds (D)	Apr/91
Vibratory Finishing (D)	Apr/99
Vibratory Finishing (M)	Apr/104
Vibratory Finish (P)	May/80
Software for Mass Finishing (D)	May/89
Bowl-Type Grinder (P)	Jun/107
Vibratory Plating Apparatus (P)	Jun/107
Thermal Deburring (D)	Jun/156
Centrifugal Barrel Finishing (P)	Jul/75
Internal Finishing of Parts (P)	Jul/76
Vibratory Finishing (M)	Aug/83
Cutting and Burnishing (M)	Aug/85
Vibratory Finishing (D)	Sep/92
Vibratory Plating (D)	Oct/100
Cryogenic Paint Removal (D)	Oct/102
Vibratory Finishing (D)	Oct/103
Vibratory Finishing (D)	Oct/104
Spindle Finishing (D)	Oct/108

#### MISCELLANEOUS

Finishing Pointer — In Defense of My Country	Jan/27
Antifouling Paint (P)	Jan/72
Measuring Surface Area (P)	Jan/73
Power Flush System for ECD Machine (D)	Jan/78
Drum Handlers (M)	Jan/87
Butylenediol (M)	Jan/88
Electrolytic Foil Treatment (P)	Jan/94
Abrasion Resistance Coating (P)	Jan/95
Surface Coatings: Science and Technology (B)	Jan/96
Pearlescent Automotive Paints (P)	Jan/96
Finishing Pointer — Contaminators in a Plating Bath	Feb/87
Ultrasonic Tuning Circuit (P)	Feb/92
Autodeposition Bath (P)	Feb/94
Software for OSHA Hazardous Communications (D)	Feb/108
Process Transmitters (D)	Feb/112
Drum Gauge with Faucet (D)	Feb/126
Electrochemical Deburring (M)	Feb/128
Surface Finishing and Plating Processes (M)	Feb/129
Refrigerated Compressed Air Dryers (M)	Feb/130
Tool and Manufacturing Engineers Handbook (B)	Feb/137
The Expert Witness Handbook — A Guide for Engineers (B)	Feb/137
Environmental Study of a Plating Room	Mar/41
Flame Retardant Coating (P)	Mar/63
Plated Plastic Article (P)	Mar/63
Thermal Deburring Device (P)	Mar/69
UV Curable Coating (P)	Mar/69
Computerized Product Selection for Formulating Chemists (D)	Mar/70
Pressure Sensitive Transfer Film (D)	Mar/75
PC Grade Sulfuric Acid (D)	Mar/76
Organic Coatings: Properties and Evaluation (B)	Mar/87
How to Become a Professional Engineer (B)	Mar/87
Curing Autodeposited Coatings (P)	Apr/72
Deposition Method (P)	Apr/72
Chemical Milling Method (P)	Apr/74
Chemical Deburring System (P)	Apr/74
Plating Polyamide Resin (P)	Apr/76
Electric Arc Cathode (P)	Apr/76
Replating Watch Crowns (S)	Apr/84
Anti-Seize Compound (D)	Apr/86
Condensing Units (M)	Apr/103
Afterburners (M)	Apr/104
Electrochemical Machining Device (P)	Apr/105
The Properties of Electrodeposited Metals and Alloys: Second Edition (B)	Apr/117
Thin Film Transfer Process (P)	May/77
Metal Coating Process (P)	May/79
Portable Flocking Unit (D)	May/97
Directory of Metallurgical Consultants and Translators (B)	May/110
Finishing Pointer — Processing for Appearance and Protection	Jun/79
TransAtlantic Letter	Jun/93
Plating Process (P)	Jun/113

Two-Step Mechanical Plating (D)	Jun/131
Clear Protective Coating (D)	Jun/140
Dry Polymer Preparation System (D)	Jun/156
Finishing Equipment and Supplies (M)	Jun/159
Mechanical Plating (M)	Jun/159
Electrochemical Deburring (P)	Jun/166
Rust Removal Coating (P)	Jun/167
Vapor Curing (P)	Jul/74
Finishing Turbine Rotors (P)	Jul/77
High Purity Water (D)	Jul/88
Hole Metal Products (M)	Jul/92
Finishing Chemicals (M)	Jul/92
Drum Pouring (M)	Jul/94
Thermal Deburring (M)	Jul/95
Finishing Pointer — Selection of Coatings	Aug/59
Spray Enameling (P)	Aug/66
Plated Memory Disc (P)	Aug/68
Blockening Titanium (D)	Aug/80
Electroplating Surfactant Compound (P)	Sep/82
Conductive Point (P)	Sep/85
Continuous Electrolysis Method (P)	Sep/86
Hand Cleaner (D)	Sep/97
Water Treatment for Paint Processes (D)	Sep/99
Electronic Component Plating (M)	Sep/103
Hazardous Waste Labels (M)	Sep/104
Hazard Communication Standard (M)	Sep/104
Electrostatic Finishing (M)	Sep/104
Satin Finish Basecoat/Clearcoat (P)	Oct/89
Wear Resistant Composite Coating (P)	Oct/89
Pearlescent Automotive Coating (P)	Oct/89
Porcelain Enameling Furnace (P)	Oct/89
High-Speed Plating Method (P)	Oct/89
Paint Burn-Off Oven (P)	Oct/90
Abrasion Resistant Coating (P)	Oct/92
Refractory Paints (D)	Oct/98
UV-Curable Coating (D)	Oct/98
Surface Mount Reflow (D)	Oct/100
Job Shop Control Software (D)	Oct/104
Static Control Equipment (D)	Oct/106
Coating for Saline/Acid Environments (D)	Oct/108
Chemical Products (M)	Oct/110
Finishing Industry Management System (D)	Oct/111
Thermoplastic Coating (M)	Oct/115
Finishing Pointer — Bond or Adhesion?	Nov/35
Waterborne Additives — Dry Property Modifiers — Part I	Nov/51
Electrochemical Machining (P)	Nov/72
Multi-layer Coating (P)	Nov/73
Applying Particles to a Surface (P)	Nov/78
Electrochemical Deburring (D)	Nov/95
Compliance Coatings (M)	Nov/99
Primers and Topcoats (M)	Nov/103
Architectural Coatings (M)	Nov/104
Ceramic Coating (P)	Dec/66
Coating Optical Fiber (P)	Dec/66
Corrosion Inhibiting Coating (P)	Dec/67
Ceramic Coating (P)	Dec/71
Liquid UV Absorber for Coatings (D)	Dec/81
Coating for Fasteners and Small Parts (D)	Dec/83
Electrolytic Edge Finishing (D)	Dec/84
Solid Film Lubricant (M)	Dec/89
Vapor Cure Process (M)	Dec/89

#### NICKEL

Nickel Passivation (P)	Jan/70
Multi-layer Nickel Process (P)	Jan/94
Technical Developments in 1985	Feb/11
Leveling Nickel Bath (P)	Feb/54
Pitting in Sulfamate Nickel (S)	Feb/104
Nickel Dendrites (S)	Mar/60
Nickel Staining (S)	Mar/70
Low Contact Resistance Coating (P)	May/74
Bright Nickel Additive (D)	Jun/128
Nickel Plating Basics Part I	Jul/23
Nickel Plating Basics Part II	Aug/12
Nickel Sulfamate Bath (P)	Aug/66
Leveling in Bright Nickel Electrolyte	Sep/67

#### PAINT APPLICATION (EXCEPT SPRAY)

Thermoplastic Coating System (D)	Jan/74
Point Dispensing System (P)	Jan/96
Paint Application Device (P)	Jan/96
Technical Developments in 1985	Feb/43
Painting Method (P)	Feb/98
Indexed Painting Machine (P)	Feb/100
Color Changer (D)	Feb/122
Surface Coatings Volume 2 — Paints and Their Applications (B)	Feb/137
Curtain Coater (P)	Mar/66
Electrostatic Coating Booth (P)	Apr/78
Electrostatic Rotary Applicator (D)	Apr/99



Autodeposition Coating (P)	Apr/05
Overamish Unit (P)	Jun/11
Painting Device (P)	Jun/11
Autodeposition Bath Activator (P)	Jun/16
Turnkey Finishing Systems (M)	Aug/83
Coating Apparatus (P)	Oct/91

#### pH MEASUREMENT

pH/Temperature Recorder (D)	Jan/84
pH Monitor and Recorder (D)	Feb/121
pH and ORP Sensors (M)	Feb/130
Digital pH Meters (D)	Apr/97
pH — A Necessity, an Evil or a Necessary Evil	Jul/65
pH Monitoring System (D)	Oct/96
pH/ORP Controller (D)	Nov/82
pH Electrode (D)	Nov/89
pH Monitoring and Recording (D)	Dec/78

#### PICKLING, ETCHING & DESALTING

Chemical Etching of Molybdenum Using Nonaqueous Solvents	Jan/59
Decomposing Alkaline Permanganate (S)	Jan/66
Electrolytic Metal Removal (P)	Jan/73
Sputter Etching (P)	Jan/95
Technical Developments in 1985	Feb/11
Chemical Polishing and Decorative Finishing of Copper	Feb/67
Etching Titanium (P)	Feb/92
Ultrasonic Etching (P)	Feb/94
Nitride Etch Device (P)	Feb/96
Plasma Etching (P)	Feb/97
Microwave Etching (P)	Feb/97
Etching Semiconductors (P)	Feb/97
Nickel Etch (P)	Feb/100
Dry Copper Etching (P)	Feb/101
Selective Etching Process (P)	Feb/101
Gold Etch (S)	Feb/102
Activator for Nickel and Stainless (M)	Feb/128
Pickling Polypropylene Resins/Chemical Etching vs Plasma Etching	Apr/57
Etching Mercury-Cadmium Telluride (P)	Apr/78
Electrochemical Roughening of Aluminum (P)	Apr/105
Alkaline Permanganate Treatment in Etch-Back Processes	May/45
Aluminum Etch (P)	May/76
Aluminum Etch (P)	May/77
Copper Etching System (P)	May/81
Etch for Metal Silicides (P)	May/81
Pickling Method (P)	Jun/107
Chemical Brightening of Aluminum	Jul/55
Desalting Metal Strip (P)	Jul/74
Etching Composition (P)	Jul/76
Etching Aluminum Foil (P)	Jul/77
Automated Chemical Milling (P)	Aug/66
Producing Ultrathin Plate (P)	Aug/67
Etching Composite Chrome Layers (P)	Aug/68
Chemical Milling of Aluminum (P)	Aug/68
Electrolytic Desoxidizer (P)	Aug/69
Etching Aluminum Foil (P)	Aug/69
Plasma Treatment of Copper (P)	Sep/79
Reactive Ion Etching (P)	Sep/79
Plasma Reactor (P)	Sep/79
Steel Etchant (P)	Sep/82
Alkaline Etch for Plastics (P)	Sep/83
Circuit Board Etching (P)	Sep/86
Plasma Etching (P)	Sep/86
Reactive Plasma Etch (P)	Sep/86
Ion Etching Device (P)	Sep/87
Microetch Bath Additive (D)	Sep/95
Aluminum Desoxidizer (D)	Sep/97
Aluminum Desoxidizer (D)	Sep/100
Plasma Etching (P)	Oct/90
Etching Carbon Steel (P)	Oct/92
Copper Oxide Removal (P)	Oct/92
Plasma Etching (P)	Oct/93
AC Etching of Aluminum (P)	Oct/94
Aluminum Desoxidizer Tank (S)	Oct/94
Passivating 303 Stainless Steel (S)	Nov/68
Passivating 416 Stainless Steel (S)	Nov/68
Replenishing Stainless Etch (S)	Nov/68
Permanganate Etch Baths (P)	Nov/72
Plating Stainless Steel (P)	Nov/73
Acid Pickling Tank (P)	Nov/74
Microetch for Copper on PC Boards (D)	Nov/82
Sulfuric Acid (M)	Nov/102
Passivating Stainless Steel Pipe (S)	Dec/63
Microwave Plasma Etch (P)	Dec/66
Reactive Ion Etching (P)	Dec/67
Passivating Solution (P)	Dec/68
Stainless Steel Passivation (P)	Dec/68
Electrochemical Grainings of Steel (P)	Dec/70
Nonchromated Desoxidizer (P)	Dec/71
Aluminum and Titanium Etch Additive (D)	Dec/72
Copper Oxide for Mullaylar PC Boards (D)	Dec/79

#### PIGMENTS

Technical Developments in 1985	Feb/43
Conductive Paint (P)	Feb/100
Pigment Toner (P)	Mar/69
Aluminum Pigments (M)	Mar/80
Titanium Dioxide for Coatings (M)	Mar/81
Titanium Dioxide Pigment (P)	Apr/74
Pearlescent Pigments (D)	Apr/100
Discoloration of Aluminized Paint (S)	May/70
Light Fast Pigments (P)	May/74
Conductive Pigments and Fillers (M)	May/99
Zinc-Rich Coating (P)	May/104
Pearl Luster Pigment (D)	Sep/100

#### PIPING, FITTINGS, NOZZLES & VALVES

Plastic Valve and Flow Control (M)	Mar/81
Electrically Actuated Ball Valve (D)	Jul/85
Thermoplastic Piping (M)	Dec/87

#### PLATING EQUIPMENT

Plating Apparatus (P)	Mar/67
Plating Equipment and Power Supplies (M)	Mar/79
Overhead Transport System (D)	Apr/90
Enclosed Track Conveyor (M)	Apr/102
Plating Equipment (M)	Jun/161
Plating Module (D)	Jul/82
Test Panel Module (D)	Jul/87
Electroplating Apparatus (P)	Sep/83
Plating Device (P)	Sep/85
System for Plating Lead Frames (P)	Sep/86
Continuous Plating Apparatus (P)	Oct/89
Programmed Hot System (D)	Oct/98
Plating and Process Equipment (M)	Oct/110
Finishing Systems (M)	Oct/110
Automated Plating Systems (M)	Oct/110
Finishing Products (M)	Oct/111
Programmed Hot System (M)	Oct/111
Plating Equipment (M)	Nov/100
Finishing Gears (M)	Nov/100
Turnkey Surface Finishing Systems (M)	Dec/86
Parts Handling and Finishing Systems (M)	Dec/90

#### PLATING MISCELLANEOUS METALS

Tungsten Deposition (S)	Jan/68
Technical Developments in 1985	Feb/11
Design for Finishing — Cadmium	Feb/73
Rhenium Coated Molybdenum (P)	Feb/98
Plating on Wire (M)	Feb/129
Plating Brighteners (M)	Apr/103
Lead Plating Inconel (S)	May/70
Corrosion of Fasteners (S)	Jul/78
Brightener Additives (D)	Jul/86
Finishing Pointer — Plating with Alkaline-Cyanide Baths	Oct/15
Composite Electrodeposits (P)	Oct/90
Blackening Invar (S)	Oct/96
Cadmium Plating Hardened Steel (S)	Nov/68
Plating Indium (S)	Nov/70
Electroplating Bath Additive (P)	Nov/71
Finishing Pointer — Plating with Alkaline-Cyanide Baths	Dec/57
Coating Molybdenum (S)	Dec/63

#### POLISHING & BUFFING

Polishing Apparatus (P)	Jan/71
Electrodeposited Grinding Tool (P)	Jan/72
Abrasive Material (P)	Jan/73
Abrasive Cloth Discs (D)	Jan/76
Backstand for Highlighting and Deburring (D)	Jan/83
Wire Brushes (M)	Jan/87
Abrasive Brush Material (M)	Jan/88
Grinding Wheel (P)	Jan/93
Technical Developments in 1985	Feb/11
Coated Abrasive Disc (P)	Feb/94
Diamond Abrasive Products (P)	Feb/98
Buffing Large, Flat Surfaces (S)	Feb/102
Grinding and Polishing Wheels (D)	Feb/110
Flap Wheel (D)	Feb/124
Abrasive Products (M)	Feb/131
Polishing Memory Discs (P)	Mar/63
Grinding Wheel Profiler (P)	Mar/67
Portable Abrasive Wheel (P)	Mar/68
Grinding Wheel (P)	Mar/68
Ultrasonic Polishing System (D)	Mar/70
Multiple-Head Finishing Machine (D)	Mar/72
Abrasive Brushes (D)	Mar/73
New Techniques in the Art of Buffing	Apr/27
Flap Wheel (P)	Apr/78
Deburring Tools (D)	Apr/93
Abrasive Belt Grinder (D)	Apr/97
CNC Machine (M)	Apr/101

Abrasive Belt (P)	May/74
Buffing Device (P)	May/76
Grinding Wheel (P)	May/77
Burnishing Compound (D)	May/84
Liquid Burnishing Compound (D)	May/94
Grinding Wheel Dressing System (D)	Jun/104
Grinding Method (P)	Jun/108
Compensating for Tool Wear (P)	Jun/108
Dressing Grinding Wheels (P)	Jun/108
Grinding Wheel for Titanium (P)	Jun/110
Edge Grinder (P)	Jun/111
Buffing Zinc Die Cast (S)	Jun/118
Mush Buffing (D)	Jun/132
Platen Grinder (D)	Jun/137
Abrasive Disc (D)	Jun/154
High Tolerance Polishing (P)	Jul/77
Buffing, Brushing and Polishing (M)	Jul/92
Coated Abrasive (P)	Aug/67
Abrasives (P)	Aug/68
Abrasive Filaments (D)	Aug/79
Spiral Band/Sieve Abrasives (D)	Aug/80
Abrasive Belt Finishing (D)	Aug/81
Automatic Finishing Unit (D)	Aug/81
Abrasive Finishing (M)	Aug/85
Abrasive Belt (P)	Sep/79
Polishing Machine (P)	Sep/84
Loading Cassette (P)	Sep/84
Compound Applicators (D)	Sep/88
Abrasive Handtool (D)	Sep/91
Deburring and Cleaning (D)	Sep/94
Polishing Wheel (P)	Oct/91
Magnetorheological Machining (P)	Oct/91
Surface Conditioning Machine (D)	Oct/101
Miniature Power Brushes (D)	Oct/101
Belt Grinder (D)	Oct/104
Abrasive Wheel (P)	Dec/66
Combination Polishing Device (P)	Dec/66
Polishing Media (P)	Dec/70
Buffing Wheel (P)	Dec/70
Rotary Indexing Machines (D)	Dec/72
Abrasive Wheels (D)	Dec/75
Coated Abrasive Belts (D)	Dec/82

#### POLYESTER COATINGS

Technical Developments in 1985	Feb/43
Polyester Coating Composition (P)	Feb/92
Thermosetting Binder Mixture (P)	Mar/63
Light-fast Polyester (P)	Jul/73
Scratch-free Polyester (P)	Nov/75
Chip Resistant Primer (P)	Dec/71

#### POLYURETHANE COATINGS

Coatings for Elastomers (M)	Jan/88
Technical Developments in 1985	Feb/43
Waterborne Polyurethane Primer (P)	Mar/66
Polyurethane Finish (D)	May/97
Polyurethane Coatings for Concrete Floors (M)	May/100
Polyurethane Lacquer (P)	Jun/104
Magnetic Coating Composition (P)	Jun/112
Metallic Base Coat (P)	Jun/112
Electron Beam Curable Coating (P)	Jul/75
Corrosion Inhibiting Coatings (P)	Jul/77
Two Component Polyurethane (P)	Aug/69
Protective Coatings (M)	Aug/84
Dual Protective Coating (P)	Sep/79
Polyurethane Coating (P)	Sep/79
High Solids Polyurethane (P)	Nov/76
Radiation Curable Polyurethane (P)	Nov/76
Polyurethane and UV/EB Cure Coatings (M)	Nov/102

#### POWDER COATINGS

Powder Coatings for Metal Furniture (M)	Jan/86
Technical Developments in 1985	Feb/43
Powder Coatings for Automotive Applications (M)	Feb/131
Powder Coating Collector (D)	Apr/86
Powder Coating Apparatus (P)	May/78
Powder Coating Composition (P)	Jul/74
Powder Spray Atomizer (P)	Jul/74
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Portable Powder Coating Device (P)	Sep/79
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Powder Coating Composition (P)	Nov/78
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Powder Recycling Booth (M)	Nov/99
Powder Spray Gun (P)	Dec/70
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Powder Coating Color Change (M)	Dec/89

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Resonant Inverter Power Supply (D)	Mar/75
Plating Equipment and Power Supplies (M)	Mar/79
Lab Rectifier (D)	Apr/86
DC Power Equipment (M)	Apr/100
Pulse Plating Power Supply (D)	May/82
DC Rectifiers (D)	Jun/128
Pulse Plating (D)	Jun/145
Power Supplies (M)	Jun/159
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DC Rectifiers (D)	Sep/98
Electrostatic Power Supply (D)	Nov/94
Power Supplies (M)	Nov/99
Power Packs for Selective Plating (M)	Dec/86
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## PRECIOUS METALS

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Silver Palladium Alloy Deposition	Jan/55
Palladium Bath (P)	Jan/70
Palladium Bath (P)	Jan/72
Gold-Iridium Plating (D)	Jan/79
Palladium Bath (P)	Jan/95
Technical Developments in 1985	Feb/11
Gold Plating Contact Tabs (P)	Feb/92
Pink Silver Plate (S)	Feb/106
Electroless Palladium for Electronics	Mar/11
Silver Plating Contacts (P)	Mar/66
Good Days & Bad Days in the Finishing Shop — Cost and Pricing Part 2 — Precious Metals	Apr/49
Mercury Gilding (S)	Apr/82
Brown Stains on Gold (S)	Apr/82
Formulating High Speed Gold and Silver	May/13
Finishing Pointer — Silver Cyanide Plating Baths	May/35
Palladium Plating	May/41
Precious Metal Recovery	May/90
Platinum Group Metal Recovery (P)	Jun/106
Palladium Recovery (P)	Jun/166
The Effects of Iron Contaminated Gold on Wirebonding	Aug/51
Method for Silver Plating (P)	Aug/67
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"Pure" Hard Gold (S)	Sep/76
Tarnishing Silver Plate (S)	Sep/76
Gold Plating Bath (P)	Sep/81
Pulsed Current Electrodeposition of Palladium	Oct/39
Selective Coating Method (P)	Oct/91
Silver Brush Plating Solution (D)	Oct/109
Solderability (S)	Nov/68
Gold Alloy Process (P)	Nov/71
Silver Plating Process (P)	Nov/74
Spot Plating Flatware (P)	Nov/76
Black Silver Anodes (S)	Dec/63
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Pulse Plating Nickel-Antimony (P)	May/76
Pulsed Current Electrodeposition of Palladium	Oct/39

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Self-Priming Stainless Pumps (D)	Feb/118
Metering Pump (D)	Feb/118
Process Pumps (M)	Feb/131
Pumps and Valves (M)	Feb/131
Centrifugal Pump (D)	Mar/76
Magnetic Drive Pumps (M)	Mar/81
Metering Pumps (D)	Apr/93
Diaphragm Filter Pump (D)	May/85
Airless Pumps (D)	May/89
Horizontal Diffuser Pumps (D)	Jun/120
Sealless Pump (D)	Jun/122
Metering Pump (D)	Jun/134
High Vacuum Pump (D)	Jun/151
Air Driven Mixers (M)	Jun/159
Centrifugal Pumps (M)	Jun/162
Point Pump for Multiple Guns (D)	Jul/82
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Magnetic Drive Pump (D)	Jul/91
Paint Pumps (M)	Jul/93
Proportioning Pumps (M)	Jul/93
Proportioning Pump (D)	Aug/82
Water Blasting Equipment (M)	Aug/83
Sealless Gear Pumps (M)	Aug/84
Sump Pump (D)	Sep/88
Metering Pump (D)	Sep/88
Brightener Feeder (D)	Sep/90
Portable Mixers (D)	Sep/93

Corrosion Resistant Pumps (M)	Sep/103
Magnetic Drive Pumps (M)	Sep/104
Cryogenic Vacuum Pumps (M)	Sep/105
Principles of Solution Agitation and Mixing	Oct/31
Selecting/Installing the Right Pump	Oct/77
Mixers and Tanks (M)	Oct/113
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Chemical Metering Pumps (M)	Dec/86
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Centrifugal Pumps (M)	Dec/87
Chemical Resistance Guide (M)	Dec/91

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Electromagnets and Magnetic	
Point Racks (M)	Mar/81
Rack Clamps (M)	May/99
Circuit Board Plating Racks (D)	Jun/140
Aluminum Anodizing Racks (M)	Aug/85
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Estimating Chemical Concentration in Rinse Tanks	Jun/85

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Safe Handling of Cyanide in Metal Finishing Operations	Feb/59
CSHA Hazard/Communication Standard (M)	Feb/131
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Chlorination Safety/Cost Comparison (M)	Apr/104
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Corrosion Resistant Cabinets (D)	Jun/142
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Half-Mask Respirators (D)	Jul/84
Safety Products (M)	Jul/94
Safety Cabinets (M)	Aug/83
Rapid Guide to Hazardous Chemicals in the Workplace (B)	Nov/98
FRP Safety Ladders (M)	Nov/103
Accidents and Hazards in Hot Dip Galvanizing	Dec/23
Safety Training (M)	Dec/91
Labels and Signs for Plant Identification (M)	Dec/91

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Selective Plating Apparatus (P)	Apr/105
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Industrial Metallizing (M)	May/98
Selective Coating of Strip (P)	Jun/106
Selective Copper Deposition (P)	Jun/110
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Electrochemical Metallizing Applicator (D)	Sep/99
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Solder Paste (M)	Feb/130
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Glycol Ether for Air-Dried Coatings (D)	Apr/90
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Spray Gun Voltage Control (P)	Feb/94
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Electrostatic Spray Equipment (M)	Jul/92
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Powder Coating Gun (D)	Aug/77
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Painting Robot and Part Positioner (D)	Aug/82
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Spray Painting Equipment (M)	Aug/84
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Spray Nozzle (P)	Sep/79
Control Console for Paint Systems (D)	Sep/92
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Spray Gun (D)	Sep/100
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Portable Painter (D)	Nov/88
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Electrostatic Air Assisted Airless Spray (M)	Nov/100
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Selective Plating Device (P)	Feb/92
Selective Plating Apparatus (P)	Feb/96
Strip Plating Device (P)	Feb/97
Strip Processing (P)	May/78
Composite Strip Coating (P)	May/78
Zinc-Nickel Strip Plating (P)	May/81
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Tin-free Steel (P)	Jul/77
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Multilayer for Steel Strip (P)	Nov/78
Electro-Galvanizing Apparatus (P)	Nov/81
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Continuous Paint Removal (P)	Feb/92
Nickel Stripping Composition (P)	Feb/92
Hot Paint Stripper (D)	Apr/86
Paint Stripper (D)	Apr/86
Dry Paint Stripping (M)	Apr/101
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## TECHNICAL MEETINGS

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NEPCON West '86	Feb/55
Transatlantic Letter — A Nice Congress	Mar/37
Proceedings of the Third International Tinplate Conference, London, Oct. 15-19, 1984	Mar/87
Proceedings of the 39th Industrial Waste Conference, May 8-10, 1984, Purdue University	Mar/88
AESF Week in Orlando	Apr/67
Surface Coating '86	May/61
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SURFIN '86 The 73rd AESF Annual Technical Conference	Jun/17
A Visit to Bournemouth	Jun/101
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AESF Holds 19th Annual Meeting	Dec/95
AESF Third International Pulse Plating Symposium	Dec/96

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Testing Waterborne Coatings — Part IX — Residual Monomer and Fluid Property Aging	Jan/47
Transatlantic Letter — Instruments for Ion Chromatography	Jan/63
Analyzing Electropolishing Baths (S)	Jan/66
Detecting Chromate on Aluminum (P)	Jan/71
Water Analysis (D)	Jan/77
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Surface Contamination Analysis (D)	Jan/80
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Testing Waterborne Coatings — Part X — Electrodeposited Mobility	Feb/77
Testing Circuit Boards (P)	Feb/92

Inspecting Circuit Patterns (P)	Feb/98
Copper Cathode Quality (P)	Feb/98
Monitoring Deposition Rate (P)	Feb/101
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Testing Waterborne Coatings — Part XI — Particle Size	Mar/47
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Flammable Gas and Solvent Vapors Detection (D)	Apr/89
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Testing Waterborne Coatings Self Cleaning Detector (P)	May/67
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Decreased Ground Detector (D)	May/94
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A Method for Measuring Local Relative Current Density	Jun/89
Apparatus for Electrochemical Measurements (P)	Jun/106
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Finishing Pointer — Communication Between the Laboratory and the Shop	Sep/55
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Thermal Spray Feed (P)	Mar/69
Arc Spray Metallizing (D)	Mar/70
Thermal Spraying Plant (P)	Apr/72
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Repairing Metal Sprayed Parts (S)	May/70
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